

INHIBITOR OF MATRIX METALLOPROTEASE

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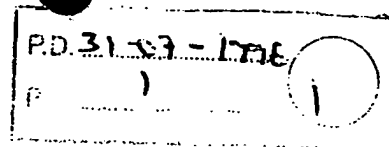
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Abstract of JP8104628

PURPOSE: To obtain a new inhibitor of a matrix metalloprotease useful for treating and preventing articular diseases, metastasis of cancerous cells and gingivitis, etc., by using a compound selected from the group of flavones and anthocyanidin as an active ingredient. **CONSTITUTION:** This new inhibitor a matrix metalloprotease contains flavones of formula I (R<1> to R<5> are each H or OH) or an anthocyanidin of formula II (R<6> and R<7> are each H or OH) as an active ingredient. The flavones or anthocyanidin herein used are preferably selected from the group of baicalein, myricetin, chrysin, apigenin, luteolin, 6-hydroxyluteolin, kaempferol, quercetin, quercetagenin, scutellarein, cyanidine, delphinidin and pelargonidin. The medicine is effective against diseases caused by the decomposition of an extracellular matrix with the matrix metalloprotease.

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AN - 125:67741 HCA

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TI - Flavones or anthocyanins as matrix metalloprotease inhibitors and their extraction from medicinal plants for therapeutic use

IN - Kumagai, Kazuo; Fujiwara, Fumi; Negoro, Takaatsu; Kaneoka, Shoji; Saji, Kitaro

PA - Sumitomo Pharma, Japan

SO - Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKCKAF

DT - Patent

LA - Japanese

IC - ICM A61K031-35
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ICA - C07D311-30; C07D311-60

CC - 63-6 (Pharmaceuticals)

Section cross-reference(s): 1, 11

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AB - Flavones or anthocyanins as matrix metalloprotease inhibitors and their extn from medicinal plants (e.g. Scutellaria baicalensis roots) for therapeutic use are claimed. Baicalein inhibited the activity of matrix metalloprotease (e.g collagenase) with IC50 = 25 .mu.g/mL. The flavones or anthocyanins may be used for treating deformative arthropathy, gingivitis, cancer metastasis , and chronic rheumatism.